

IN THE SPECIFICATION

Please replace the paragraph [0016] beginning at line 14 on page 4 with the following paragraph:

Figure 4b **and 4c** illustrates a table showing the results of the operation of Figure 4a for a ~~3x3~~ **1x3** matrix; and

Please replace the paragraph [0042] beginning at line 1 on page 11 with the following paragraph:

Figure ~~5a~~ **4a** illustrates a flow chart describing the recursive calculation of the syndrome vector. In step 40, the index n is set to "0" and an initial vector T_0 is defined. In step 42, the index is incremented and in step 44, $T(n)$ is defined as $T(n) = R(A(n))_n * T(n-1) + T(n-1) \ll 1$. For T_1 (i.e., $n=1$), this calculation would be equivalent to $\{A_1\} * \{1\} + \{1 \ 0\}$. Therefore, $T_1 = \{1 \ A_1\}$. In step 46, $U(n)$ is calculated as $U(n) = T(n-1) * \{E(n) \ E(n-1) \ \dots \ E_1\}$. For $n=1$, $U(n) = \{1\} \{E_1\} = \{E_1\}$. In step 48, $W(n)$ is calculated as $W(n) = \text{sum}(U(n))$. For $n=1$, $U(n) = E_1$. The modified syndrome vector is set to:

$$\begin{bmatrix} W_1 \\ \vdots \\ W_v \end{bmatrix}$$